



**LERRO PRODUCTS, INC.**  
 1321 Walnut Street  
 Camden, NJ 08103

**1. Identification**

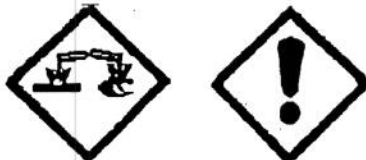
Product Identifier **DELIMER**  
 Other means of Identification  
 Product code **2130**  
 Recommended use **Descaler**  
 Recommended restrictions **None**  
 Manufacturer/Importer/Supplier/Distributor information  
 Manufacturer

Company name **Lerro Products, Inc.**  
 Address **1321 Walnut Street  
 Camden, N. J. 08103**  
 Telephone **(856) 203-3561**  
 E-mail **lerroproducts@aol.com**  
 Emergency phone number **1-800-255-3924**

**2. Hazard(s) Identification**

Physical hazards **Not classified**  
 Health hazards **Skin corrosion/irritation **Category 1**  
 Serious eye damage/eye irritation **Category 1A**  
 Inhalation – may cause respiratory **Category 1**  
 Irritation with coughing, sneezing,  
 salivation and difficulty breathing  
 severe exposures may lead to chemical  
 pneumonitis  
 Hazardous to the aquatic environment, **Category 2**  
 acute hazard  
 Hazardous to the aquatic environment, **Category 2**  
 long term hazard**

OSHA defined hazards  
 Label elements



Signal word  
 Hazard statement

**Danger**  
 Harmful in contact with skin. Causes severe burns and eye damage. Harmful to aquatic life. Harmful to aquatic with long lasting effects.

Precautionary statement  
 Prevention

Do not breathe mist or vapor. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Response

If swallowed: Rinse mouth, do NOT induce vomiting. Give large quantities of water. Immediately call a physician or emergency response personnel. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Take off contaminated clothing and wash before reuse.

Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazards not otherwise  
Classified (HNOC) None known.  
Supplemental Information None

3. Composition Information on ingredients/

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Water		#732-185	<77
Hydrochloric Acid		#7647-01-0	5PPM

4. First aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Call a physician or poison control center immediately.

Ingestion Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. Give large quantities of water. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, swelling, and blurred vision. Permanent eye damage including blindness could result.

General Information Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Dry chemical powder. Carbon dioxide (CO2)

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread fire. May cause violent and dangerous reaction by contact with combustible liquids and solids. Highly explosive hydrogen gas is generated by the action of the acid on most metals. Product will react with most organic material with the evolution of heat and dense, white fumes. Wear self-contained breathing apparatus and protective clothing.

Specific hazards arising from the chemical. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire fighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment instructions Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards This product is not flammable or combustible.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedure Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in dry sand or earth and place into recovery containers. Rinse with a lime or soda ash solution.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of SDS.

Environmental precautions Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto ground.

7. Handling and storage Do not taste or swallow. Avoid contact with eyes and skin. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

Conditions for safe storage Store in original tightly closed container. Store away from incompatible materials. (see Section 10 of the SDS)

8. Exposure controls/personal Protection

Occupational exposure limits No exposure limits noted for ingredient(s).

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering Observe good industrial hygiene practices.

Controls

Individual protection measures, such as personal protection equipment

Eye/face protection Safety glasses

Hand protection Latex or rubber gloves

Skin protection

Other

Rubber boots should be worn if working in standing solution.

Respiratory protection Generally not required.

Thermal hazards Not available

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Liquid

Form Liquid

Color Clear Red or Clear Green

Odor Bland

Odor threshold Not available

pH <1

Melting point/freezing point 39.2° (4 C)

Initial boiling point and boiling range >212°F (100°C)

Range

Flash point None

Evaporation rate Not available

Flammability (solid gas) Not available

Upper/lower flammability or explosive limits

Flammability limit - upper NOT APPLICABLE

(%)

Explosive limit - lower (%) Not applicable

Explosive limit - upper (%) Not applicable

Vapor pressure Not determined or Unknown

Vapor density Estimated lighter than air

Relative density Not available

Solubility (ies)

Solubility (water) Complete

Auto Ignition temperature Not available

Decomposition temperature	Not available
Viscosity	Same as water
Other information	
Density	9.52
Pour point	44.6°F (7°C)

#### 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Chemical is stable under normal conditions.
Possibility of hazardous reactions	Will react with most organic material with the evolution of heat and dense, white fumes
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Organic materials and metal
Hazardous decomposition products	Hydrogen gas

#### 11. Toxicological information

##### Information on likely routes of exposure

Ingestion	May be harmful or fatal if swallowed. May cause severe mucosal damage and gastrol distress.
Inhalation	None
Skin	May cause skin irritation
Eye contact	Will cause eye irritation or damage.
Symptoms related to the physical, chemical and toxicological characteristics	Not known

##### Information on toxicological effects

Acute toxicity	Harmful in contact with skin or eyes
Skin corrosion/irritation	May cause skin irritation.
Serious eye damage/eye irritation	Causes eye irritation or damage.
Respiratory or skin sensitization	
Respiratory sensitization	Inhalation of mist may cause respiratory irritation with coughing, sneezing, salivation and difficulty breathing. Severe exposures may lead to chemical pneumonitis.
Skin sensitization	Causes irritation and burning
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
OS/OSHA Specifically Regulated Substances (29 CFR 1910 1001-1050)	
Not listed.	
Reproductive toxicity	Contains no ingredient listed as toxic to reproduction.
Specific target organ toxicity single exposure	Not classified.
Specific target organ toxicity repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.

#### 12. Ecological information

Ecotoxicity	No data available
Persistence and degradability	Readily biodegradable.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected. Page 5 of 7

13. Disposal considerations

Disposal instructions      Dispose in accordance with all applicable regulations.  
Hazardous waste code      Not applicable.

Waste from residues/unused products      Dispose of in accordance with local regulations

14. Transport Information

DOT

UN number                      UN1791  
UN proper shipping name      HYDROCHLORIC ACID SOLUTION  
Class                              8  
Subsidiary risk                  -  
Packing group                  II  
Special precautions for user    Read safety instructions, SDS and emergency procedures before handling.  
ERG-number                      154

DOT information on packaging may be different from that listed.



15. Regulatory information

US federal regulations      This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard, 29 CFR 1910.1200.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories              Immediate Hazard - Yes  
    Delayed Hazard - No  
    Fire Hazard - No  
    Pressure Hazard - No  
    Reactivity Hazard - No

SARA 302 Extremely Hazardous substance      No

SARA 311/312 Hazardous chemical              Not regulated

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List  
Not regulated

Clean Air Act (CAA) 112(r) Accidental Release Prevention (40 CFR 68.130)  
Not regulated

Safe Drinking Water Act (SDWA)      Not regulated

16. Other information, including date of preparation or last revision

Issue date 06/01/2015  
HMIS ratings Health : 2  
Flammability: 0  
Physical hazard: 0  
NFPA ratings Health: 2  
Flammability: 0  
Instability: 0

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Revision: 08/24/2015  
Pictograms